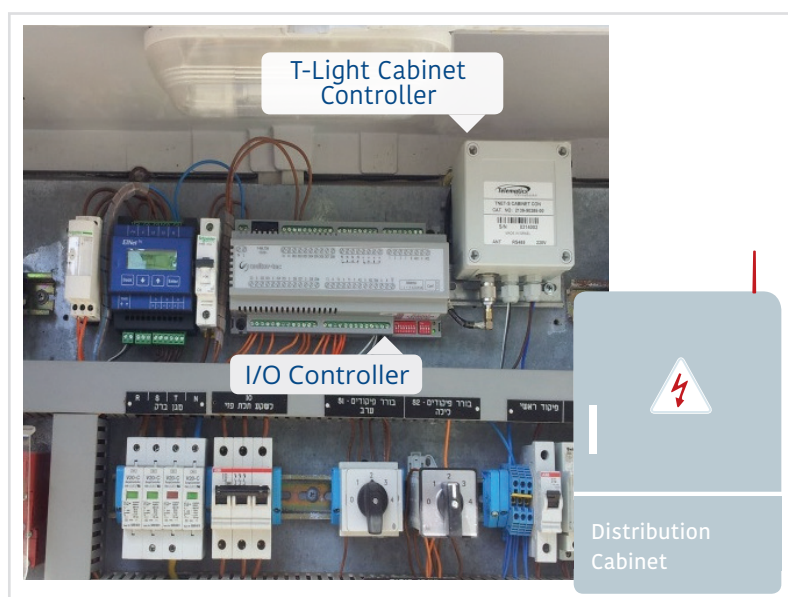# T-Light™ Galaxy Cabinet Controller

The **T-Light™ Cabinet Controller** is a wireless module which controls and monitors a Streetlight Distribution Cabinet. As part of the **T-Light™** family of products developed and specifically designed to control and monitor outdoor lighting applications, the Cabinet Controller is a simple plug and play add on to our **T-Light Galaxy** wide area wireless network. Adding a Cabinet Controller is a low cost way to manage, control, and collect data from any streetlight cabinet.

T-Light Cabinet Controller, interfaced with cabinet I/O controller via MODBUS, controls and monitors ON/OFF function of the power contactors of the luminaires in accordance with the remotely programmable schedule, monitors status of selectors, door indicator, presence sensor, photocell etc. In addition cabinet controller collects detailed metering data from the cabinet Power Meter.

In **T-Light Galaxy** the Cabinet Controller may work individually or in conjunction with other T-Light building blocks such as the LCU (Light Control Unit) which provides dimming, control, and monitoring for individual fixtures and poles.

Functional Specifications

- Acts as node of T-Light Galaxy
- MODBUS interface with external Cabinet Power Meter for delivery of accumulated Power, Voltage, Power Factor etc.
- MODBUS Interface with external Cabinet I/O Controller for control and monitoring of contactors, selectors, presence detector, door indicator and more
- Scheduling
- Over the air firmware upgrade
- Real Time Clock
- Optional Cellular modem for direct interfacing with T-Light CMS
- In-cabinet or external antenna options

T-Light Cabinet Controller

I/O Controller

Distribution Cabinet

Telematics *Wireless*

T-Light™ Galaxy
Cabinet Controller

Technical Characteristics

Input Voltage:	85-305 VAC @50-60Khz
Average Current:	2mA/220V
Operating temperature:	-40° to +85°
Safety:	IEC 60950-1:05 + A1:09
	EN 60950-1:06 + A11:09 + A1:10 + A12:11
	SI 60950 part 1:03
	CB

Mechanical Characteristics

Enclosure:	100 x 130 x 70mm
Environmental Protection:	IP65

RF characteristics

Frequency Range:	450-470MHz - Licensed band
Channel Bandwidth:	6.25KHz
Receiver Sensitivity:	-120dBm@4.8kbps
Output Transmit Power:	Up to +36dBm/4Watt
Certification:	FCC Part 90.210, spectrum mask E
Range to Base Station or end unit:	Up to 20km, depending on the environment and topography

Company Overview

Telematics Wireless is a recognized global leader in the delivery of robust, reliable and advanced energy and water resource management systems based on RF wireless networks. With almost 20 years of experience in Machine-to-Machine (M2M) technologies, our solutions support a wide spectrum of smart city applications, increasing their efficiency, reliability, and cost-effectiveness. Telematics Wireless has delivered and installed over 15 million cutting-edge wireless devices and water systems for Automatic Meter Readings (AMR), Advanced Metering Infrastructure (AMI), energy resource management, smart grid, street and outdoor lighting control systems, location-based services, asset tracking and monitoring, and electronic toll collection.

Telematics Wireless is a fully owned subsidiary of ST Electronics (Info-Comm Systems) Pte. Ltd.

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